

ABSTRACT OF THE DISCLOSURE:

A composite intended for medical, in particular surgical or therapeutic use, which includes a thermoplastic component and a bioactive component. The thermoplastic component is plasticizable within the temperature range -10°C to $+100^{\circ}\text{C}$, and is substantially made up of hydroxy acids or structural units derived from hydroxy acid derivatives, the molar mass of which is within the range 10,000 - 1,000,000 g/mol, and which degrades in the body typically within a period ranging from a few days to several years, and which in its solid state is a mechanically strong plastic or rubbery material. The bioactive component is a bioactive glass, a bioactive xerogel, a bioactive ceramic material, coral or a coral-based product, or a bioactive glass ceramic material. The invention also relates to the use of the novel composite and to products made therefrom.